

Electronic Overload Guard

FEATURES

- Redundant safeguarding system with two independent inputs for load cells
- Meets category 3 EN 13849-1:2008, PL d standard
- Load limiter featuring double security design
- Integrated alarm for load cell malfunction or power failure
- Mountable on DIN rail

OPTIONS

Analog option

APPLICATIONS

- Off-highway vehicles
- Agricultural equipment
- Construction equipment
- Lifting machines
- Telescopic loaders

DESCRIPTION

The WG3 is specifically designed to prevent a weight bearing machine from exceeding its capacity. It can monitor and convert the outputs of up to four 350 Ω load cells and prevent their combined output from surpassing



the limit set. It boasts a redundant safeguarding system that allows the load cells to be connected as independent pairs. The WG3 also features an integrated alarm for detecting load cell malfunctions or power failure, and a 60°C operating temperature range





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SPECIFICATIONS

PERFORMANCE

Power Output 10 to 30 VDC

Insulation Class III

Measuring Range -3.9 to +3.9 mV/V

Input Sensitivity 0.02 µV/division

Internal Resolution 24 bit

Calibration Type Digital, from the keyboard

Frequency Signal Updates 12 to 1000 Hz

Filter (Adjustable) 0.25 to 3 Hz

ENVIRONMENTS

Operating Temperature -10 to +50°C (max humidity before condensation 85%)

Storage Temperature -20 to 60°C

ELECTRICAL

Maximum Power Consumption 6 W

DISPLAY AND KEYBOARD

Display 4 digit, 7 segment LED

Digit Height 7 mm

Keyboard 4 key mechanical keyboard

Functions Executable From Keyboard Calibration of Zero and Full Scale values

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INPUT AND OUTPUTS

Load Cell Inputs 4 at 350 Ω for both measuring channels

Logic Outputs Alarm 4 relay outputs

Interruption Control for Load Cell Cable Indication on the display and via relay

Optional Analogue Output 4 to 20 mA (1 output per channel)

Resolution 16 bit

Linearity <0.03% of full scale

Impedance 300 Ω

ENCLOSURES

Dimensions 136 x 125 x 57 mm L x H x D; 171 x 125 x 57 mm L x H x D with analog option

Mounting DIN rail mount

Electrical Connections 5.08 mm terminal screw blocks

APPROVALS

EN

EN 61000-6-2; EN 61000-6-3 EMC to EN 61010-1 for electrical safety; EN 13849-1 parts of control systems related to safety



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